

Amendment to Drawing

Please replace drawing sheet 6/44 with the enclosed replacement sheet 6/44.

AMENDMENTS TO CLAIMS

Listing of Claims:

1-28 (Cancelled)

29. (Currently Amended) An apparatus, comprising:

a first component having one or more electromagnetic elements; and

a second component having one or more electromagnetic elements and movably coupled to the first component, wherein:

the second component is adapted to move with respect to the first component in a cyclical manner; and

the one or more electromagnetic elements of the first component are adapted to interact with the one or more electromagnetic elements of the second component during each of one or more cycles of motion of the second component with respect to the first component such that, when a constant force profile is applied to move the second component with respect to the first component, the speed of motion increases and decreases one or more times during each cycle of motion due to different levels of electromagnetic interaction between the electromagnetic elements within each cycle of motion [The apparatus of claim 1], wherein:

at least one of the electromagnetic elements in one of the components is a magnet; and

at least one of the electromagnetic elements in the other component is an interaction element, wherein:

the interaction element has a material that exhibits at least one of electrical conductivity and magnetic hysteresis; and

the electrical conductivity or magnetic hysteresis or both of the material varies with position over the interaction element, such that, as the second component moves with respect to the first component, the magnet induces at least one of eddy currents and hysteresis forces in the interaction element that vary in intensity during each cycle of motion.

30. (Previously presented) The apparatus of claim 29, wherein the interaction element has one or more cutouts, each cutout corresponding to a position of local minimum interaction level between the electromagnetic elements.

31. (Previously presented) The apparatus of claim 30, wherein the interaction element has a plurality of cutouts.

32. (Previously presented) The apparatus of claim 31, wherein at least two of the cutouts have different dimensions resulting in different local minimum interaction levels and different speeds of motion over each cycle of motion.

Claims 33 -43 (Cancelled)

44. (Currently amended) An apparatus, comprising:

a first component having one or more electromagnetic elements; and

a second component having one or more electromagnetic elements and movably coupled to the first component, wherein:

the second component is adapted to move with respect to the first component in a cyclical manner; and

the one or more electromagnetic elements of the first component are adapted to interact with the one or more electromagnetic elements of the second component during each of one or more cycles of motion of the second component with respect to the first component such that, when a constant force profile is applied to move the second component with respect to the first component, the speed of motion increases and decreases one or more times during each cycle of motion due to different levels of electromagnetic interaction between the electromagnetic elements within each cycle of motion [The apparatus of claim], wherein said first and second components comprise a bubble vibration toy, wherein said bubble vibration toy shows oscillations of at least one soap film stretched over one or more rigid or partially rigid boundaries, said oscillations being visible in a mode of motion.

45 -46 (Cancelled)

47. An apparatus, comprising:

_____ a first component having one or more electromagnetic elements; and
_____ a second component having one or more electromagnetic elements and movably coupled to the first component, wherein:
_____ the second component is adapted to move with respect to the first component in a cyclical manner; and

_____ the one or more electromagnetic elements of the first component are adapted to interact with the one or more electromagnetic elements of the second component during each of one or more cycles of motion of the second component with respect to the first component such that, when a constant force profile is applied to move the second component with respect to the first component, the speed of motion increases and decreases one or more times during each cycle of motion due to different levels of electromagnetic interaction between the electromagnetic

elements within each cycle of motion [The apparatus of claim 1], wherein said first and second components are adapted to attach to an internal combustion engine, wherein the levels of electromagnetic interaction between the first component and the second component vary in a manner to partly or completely smooth out the pulsating torque being delivered by the combustion engine.

48-50 (Cancelled)